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(71) Applicant (for all designated States except US): BRAIN BIOTECHNOLOGY RESEARCH AND INFORMA-TION NETWORK AG [DE/DE]; Darmstädter Strasse 34, 64673 Zwingenberg (DE).

(72) Inventors; and

(75) Inventors/Applicants (for US only): VERSECK, Stefan [DE/DE]; Alicestrasse 8, 63456 Hanau (DE). LIEBETON, Klaus [DE/DE]; Heinrichstrasse 2a, 64673 Zwingenberg (DE). ECK, Jürgen [DE/DE]; Jakobsweg 48, 64625 Ben-

(74) Agent: WACHENFELD, Joachim; Vossius & Partner, Siebertstrasse 3, 81675 München (DE).

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(57) Abstract: The present invention is concerned with the preparation of novel nitrile hydratases. These latter are preferably obtained from nonculturable organisms by means of a PCR-based screening, in metagenome DNA libraries, using special degenerate primers.